Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/01/2018 11/01/2018	Zach Jojola

LM Start		Rating **	Α	Issue No. 14			
LM End		Issue Type +	Ма	Location * N/A			
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals			0		0	
DWR ID	DWR_RD2095_01_s _ 2013_14						
Comment Code							
		Inspecto	or Comm	nent			
The O&M	Manual is	available at th	e office.				

No Photos

Rating ** Issue No. Α 17 LM Start Issue Type + Ма Location * N/A LM End Earthen Levee GPS Latitude/Longitude Category Start End Flood Preparedness & Training Item DWR_RD2095_01_s _ 2013_17 DWR ID Comment Code

No Photos

Inspector Comment The LMA has a current flood fight training and a flood fighting plan.

LM Start		Rating **	Α	Issue No.		19	
LM End		Issue Type +	Ма	Location * N/A			
Category	Earthen L	GPS La	atituc	de/Longitude			
Calegory			Start		End		
Item		mergency Supplies &			0		0
item	Equipment				0		0
DWR ID	DWR_RD2	095_01_s _ 201					
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			
Flood fight	ing supplie	es available or	n-site at	the wareho	use.		

No Photos

* Location LS: Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.15 Rating **		A/W	Issue No.		10	
LM End	0.15	Issue Type +	Ma	Location *		WS	
Catagony	Earthen L	evee		GPS La	atitud	e/Longitude	
Category			Start		End		
Item	Slope Stability			37.7699	97°	37.769997°	
пеш			-121.3250	55 °	-121.325055°		
DWR ID	DWR_RD2095_01_f _ 2015_10						
Comment Code							

S3 : Repair the levee slope damaged by vehicle traffic and prevent

Inspector Comment

LMA is actively controlling access. The slope appears to be stable and should be monitored for possible erosion.

Photo 1 of 1 : FA_2018_RD2095_322_10_20180911_00001.jpg



View of the vehicle tracks on the waterside levee slope.

LM Start	0.79	Rating **	M	Issue No.		6			
LM End	0.79	Issue Type +	Ma	Location *		WS			
Category	Earthen L	GPS Latitude/Longitude							
Calegory				Start		End			
Itom	Trim / Thi	Trim / Thin Trees			79°	37.762679°			
Item				-121.3182	73°	-121.318273°			
DWR ID	DWR_RD2	095_01_f _ 201	8_6						
	2								

Comment Code

access where possible.

T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/01/2018 11/01/2018	Zach Jojola

LM Start	0.60	Rating **	М	Issue No.	6		
LM End	0.60	Issue Type +	Ма	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Vegetation			37.7516	68°	37.751668°	
пеш				-121.30430)2 °	-121.304302°	
DWR ID	ID DWR_RD2095_02_s _ 2012_6						
Comment Code							

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Small shrub at the edge of the ditch.

0.97 Rating ** A/W Issue No. 941 LM Start 0.97 Issue Type + Location * WS LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 37.749706° 37.749706° Item -121.299237° -121.299237° DWR_RD2095_02_s _ 2012_941 DWR ID

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Dense bush within 20' of crown on waterside slope.

No Photos

No Photos

Rating ** Issue No. A/W 940 LM Start 0.98 0.98 Issue Type + Ma Location * WS LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 37.749629° 37.749629° Item -121.299040° -121.299040 ° DWR ID DWR_RD2095_02_s _ 2012_940

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

* Location

LS: Land Side

WS: Water Side

N/A: Not Applicable

A : Acceptable M : Minimally A Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.09	Rating **	С	Issue No.		3	
LM End	1.09	Issue Type +	Ma	Location *	LS		
Catagony	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Trim / Thi	im / Thin Trees			84°	37.748184 °	
пеш			-121.2989	95°	-121.298995 °		
DWR ID	DWR_RD2095_02_s _ 2012_3						
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
Inspector Comment							
4 stumps							

No Photos

LM Start	1.33	Rating **	M	Issue No.		10
LM End	1.33	Issue Type +	Ma	Location *		WS
Category	Earthen L		GPS Latitude/Longitude			
Calegory			Start		End	
Itom	Cracking			37.7449	04°	37.744904°
Item				-121.2976	79°	-121.297679°
DWR ID	DWR_RD2	095_02_f _ 201				

Comment Code

CR1: Monitor and have inspected by geotechnical engineer.

Inspector Comment

Large crack on the waterside shoulder at previous erosion repair site. Recommend getting a geotechnical engineer to evaluate the crack.

Photo 1 of 1 : FA_2018_RD2095_323_10_20181105_00020.jpg



View of cracking on waterside shoulder. Fall 2018.

	LM Start	1.50	Rating **	A/W	Issue No.		12		
	LM End	1.50	Issue Type +	Ma	Location *	WS			
	Category	Earthen Levee				GPS Latitude/Longitude			
	Calegory				Start		End		
	Item	Vegetation			37.7428	28°	37.742828	0	
					-121.2975	32°	-121.297532	0	
	DWR ID	DWR_RD2	095_02_s _ 201	2_12					
Comment Code									

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown	U : Unacceptable	A/W · Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.		1	
LM End	1.77	Issue Type +	Ma	Location *	WS		
Supplemental				GPS Latitude/Longitude			
Category				Start		End	
Item	DWR Ero	sion Survey		37.7401	96°	37.740196°	
пеш	em				62 °	-121.297662°	
DWR ID	VR ID RD2095U02RM60.62						
Comment Code							

Inspector Comment

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed.

08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

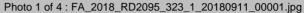
The site was not visited by boat survey due to the limitation of navigable waterway.

08/23/2011: No significant change observed.

9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.

9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

LM Start	1.74	Rating **	A/W	Issue No.	1 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS





Looking at the erosion from downstream.

Photo 2 of 4: FA_2018_RD2095_323_1_20180911_00002.jpg



Looking at the erosion from upstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.		1 (cont)	_
LM End	1.77	Issue Type +	Ma	Location *		WS	
Category				GPS La	tituc	le/Longitude	
Category				Start		End	
ltom	DWR Ero	sion Survey		37.74019	96°	37.740196	0
пеш	Item				62 °	-121.297662	0
DWR ID RD2095U02RM60.62							
Comment Code							

Inspector Comment

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed. 08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

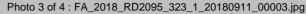
The site was not visited by boat survey due to the limitation of navigable waterway.

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9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

LM Start	1.74	Rating **	A/W	Issue No.	1 (cont)
LM End	1.77	Issue Type +	Ма	Location *	WS





Close view of the erosion.

Photo 4 of 4: FA_2018_RD2095_323_1_20180911_00004.jpg



Close view of the erosion.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.75	Rating **	A/W	Issue No.	15			
LM End	1.84	Issue Type +	Ma	Location *				
Supplemental			GPS Latitude/Longitude					
Category	Start				End			
ltom	2017 Stor	m Damage		37.74019	96 °	37.738880	0	
Item				-121.29766	62°	-121.298260	0	
DWR ID DWR_RD2095_02_f _ 2017_15								
	Comment Code							

Inspector Comment

Levee Evaluation Comments

Description:Active waterside erosion on san joaquin river near the end of Wright Road in Tracy, CA. Total length of erosion extends 615. Erosion has extended 15 feet towards levee toe this flood season. Pleasee see attached map and photots. As the high water level receds from the winter storm, we can see more damage to this stie. Erosion is active.

Site ID No:469

Site Designation:LMA-296 Repair Type: Erosion Rating:Serious Field Date:7/26/2017

Notes: This is an active erosion site. Zero vegetation within the eroded portion. It may not be quite in the prism now, but lost about 20 ft (horizontally) of bank last year. Saw eddies in the water here also.

LM Start	1.75	Rating **	A/W	Issue No.	15 (cont)
LM End	1.84	Issue Type +	Ma	Location *	



Photo 2 of 3: LEVAL_FA_2018_469_2349.jpg



Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/01/2018 11/01/2018	Zach Jojola

LM Start	1.75	Rating **	A/W	Issue No.		15 (cont)
LM End	1.84	Issue Type +	Ma	Location *		
Supplemental			GPS Latitude/Longitude			
Calegory	Category			Start		End
ltom	2017 Stor	m Damage		37.7401	96°	37.738880°
пеш	Item			-121.2976	62 °	-121.298260 °
DWR ID DWR_RD2095_02_f _ 2017_15						
Comment Code						

Inspector Comment

Levee Evaluation Comments

Description:Active waterside erosion on san joaquin river near the end of Wright Road in Tracy, CA. Total length of erosion extends 615. Erosion has extended 15 feet towards levee toe this flood season. Pleasee see attached map and photots. As the high water level receds from the winter storm, we can see more damage to this stie. Erosion is active.

Site ID No:469

Site Designation:LMA-296 Repair Type: Erosion Rating:Serious Field Date:7/26/2017

Notes: This is an active erosion site. Zero vegetation within the eroded portion. It may not be quite in the prism now, but lost about 20 ft (horizontally) of bank last year. Saw eddies in the water here also.



LM Start	2.12	Rating **	A/W	Issue No.		20	
LM End	2.12	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Vegetation Item			37.7348	58°	37.734858	0	
item				-121.2977	58°	-121.297758	0
DWR ID DWR_RD2095_02_s _ 2012_20							
Comment Code							

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	11/01/2018 11/01/2018	Zach Jojola

LM Start	2.38	Rating **	A/W	Issue No.		945
LM End	2.38	Issue Type +	Ма	Location *		
Category			GPS Latitude/Longitude			
Calegory				Start		End
DWR UCIP LMA Responsibility			37.73131	3°	37.731313°	
пеш				-121.29829	8°	-121.298298°
DWR ID	21644					·

Comment Code

Inspector Comment

FS_ID:19871 DS_ID:21644 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD_STRUCT_DESC: 8-inch steel drainage pipe through the levee, 3 feet below the crown. Pump in drainage ditch on the landside (LS). Vent pipe at the waterside (WS) toe. 1.5-inch galvanized iron electrical conduit through the levee at the same location. Service pole with a switch box and meter on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 2.41)]. FS Date: 9/10/2013

LM Start	2.38	Rating **	A/W	Issue No.	945 (cont)
I M End	2.38	Issue Type +	Ma	Location *	



Pump on metal pier off LS toe.

Photo 2 of 2: UCIP_FA_2018_19871_33777.jpg



Vent standpipe on WS toe.